

Correction to “Apparent and true polar wander and the geometry of the geomagnetic field over the last 200 Myr”

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Received 12 February 2003; published 10 October 2003.

INDEX TERMS: 1527 Geomagnetism and Paleomagnetism: Paleomagnetism applied to geologic processes; 3040 Marine Geology and Geophysics: Plate tectonics (8150, 8155, 8157, 8158); 8120 Tectonophysics: Dynamics of lithosphere and mantle—general; 9900 Corrections; **KEYWORDS:** paleomagnetism, polar wander Earth rotation, TPW

Citation: Besse, J., and V. Courtillot, Correction to “Apparent and true polar wander and the geometry of the geomagnetic field over the last 200 Myr,” *J. Geophys. Res.*, 108(B10), 2469, doi:10.1029/2003JB002684, 2003.

[1] In the paper “Apparent and true polar wander and the geometry of the geomagnetic field over the last 200 Myr” by Jean Besse and Vincent Courtillot (*Journal of Geophysical Research*, 107(B11), 2300, doi:10.1029/2000JB000050, 2002), the data in the top part of Table 4 were incorrect. The correct Table 4 is given here.

Table 4. Master Apparent Polar Wander Paths for the past 200 Myr Calculated for a 20 Myr Sliding Window Every 10 Myr^a

Window	Age	N	South Africa				South America				India				Australia			
			λ (°N)	ϕ (°E)	A_{95}	K	λ (°N)	ϕ (°E)	A_{95}	K	λ (°N)	ϕ (°E)	A_{95}	K	λ (°N)	ϕ (°E)	A_{95}	K
0	3.1	30	86.2	176.9	2.6	105.5	86.5	168.0	2.6	104.8	86.8	197.1	2.6	106.2	87.5	207.6	2.6	105.1
10	8.3	54	85.3	173.5	2.0	95.7	85.9	151.0	2.0	93.6	86.2	216.4	2.0	95.2	87.0	254.3	2.0	91.0
20	18.9	38	83.9	175.9	2.7	74.4	84.7	133.8	2.7	76.4	84.0	246.8	2.8	67.8	82.8	287.8	2.9	66.1
30	29.5	23	81.8	190.7	3.9	63.1	83.7	132.6	3.8	66.7	79.1	266.1	4.0	57.9	76.6	291.0	4.0	57.8
40	40.0	24	79.0	201.1	3.2	88.8	82.6	139.2	3.3	81.6	73.1	272.4	3.4	77.8	71.7	289.8	3.3	82.6
50	52.2	31	76.9	210.3	3.4	57.7	82.1	141.8	3.4	59.9	63.3	276.4	4.1	40.1	68.2	293.0	3.4	58.9
60	59.7	45	74.3	225.7	2.9	54.7	82.9	170.4	2.8	57.3	51.4	278.7	4.0	29.5	64.0	293.5	2.8	56.8
70	67.3	34	71.9	233.7	3.2	61.4	82.6	188.3	3.2	61.2	39.9	280.3	3.6	46.6	61.1	295.1	3.2	60.1
80	77.9	14	70.3	241.6	6.1	43.4	83.7	196.2	5.9	46.3	29.2	284.7	6.7	36.9	59.0	301.9	6.1	44.4
90	90.0	13	66.7	248.7	4.9	72.5	85.3	206.9	5.1	66.7	21.3	290.7	5.0	69.0	57.5	310.2	5.2	64.3
100	97.6	12	65.4	248.0	7.0	39.4	86.7	177.9	6.7	42.6	18.7	292.6	7.3	36.5	59.4	316.0	6.8	41.6
110	113.6	17	57.9	259.0	4.6	60.8	87.1	253.3	4.1	75.8	8.7	296.7	4.6	60.7	55.1	329.2	4.1	75.6
120	119.1	20	54.0	261.1	2.7	152.7	85.3	247.1	2.3	197.8	4.3	297.2	2.7	143.9	53.5	330.0	2.3	207.6
130	126.4	14	50.0	262.1	2.9	190.9	83.1	237.1	2.8	203.5	-0.8	297.9	3.4	135	51.7	330.3	3.3	149.0
140	136.8	7	45.7	264.5	6.2	97.2	79.7	236.6	6.1	98.2	-7.2	300.2	6.4	89.4	47.1	330.3	6.8	78.7
150	151.6	10	52.9	260.6	6.2	62.0	87.3	232.7	6.2	62.0	-0.8	306.3	6.8	52.0	47.7	342.8	6.8	50.9
160	162.3	15	55.1	259.9	5.1	57.0	89.5	264.4	5.1	57.0	1.6	310.3	5.1	58.5	46.6	349.4	5.0	58.5
170	173.4	21	60.8	260.9	6.0	28.8	84.5	27.2	6.0	28.8	6.5	315.6	6.0	28.8	45.5	359.6	6.0	28.8
180	178.8	18	66.0	260.1	5.4	41.3	79.4	33.9	5.4	41.3	11.0	318.2	5.4	41.3	45.8	7.0	5.4	41.3
190	189.7	23	64.7	259.0	4.2	52.9	80.7	36.3	4.2	52.9	10.2	317.1	4.2	52.9	46.3	5.2	4.2	52.9
200	196.7	19	62.2	252.4	4.3	61.6	82.4	60.7	4.3	61.6	10.0	313.1	4.3	61.6	49.5	1.9	4.3	61.6

Window	Age	N	Antarctica				Europe				North America				Greenland			
			λ (°N)	ϕ (°E)	A_{95}	K	λ (°N)	ϕ (°E)	A_{95}	K	λ (°N)	ϕ (°E)	A_{95}	K	λ (°N)	ϕ (°E)	A_{95}	K
0	3.1	30	86.5	171.6	2.6	105.3	86.3	172.0	2.6	105.1	86.1	174.8	2.6	105.2	86.1	174.8	2.6	105.2
10	8.3	54	86.0	160.8	2.0	95.8	85.4	162.5	2.0	94.4	85.0	168.1	2.0	94.2	85.0	168.1	2.0	94.2
20	18.9	38	85.4	151.9	2.7	75.9	84.0	154.8	2.7	76.2	83.3	164.2	2.7	75.6	83.3	164.2	2.7	75.6
30	29.5	23	85.1	162.2	3.8	65.6	82.8	158.1	3.8	66.2	81.5	169.2	3.8	65.4	81.5	169.2	3.8	65.4
40	40.0	24	84.3	172.4	3.3	82.1	81.3	162.4	3.3	81.9	79.5	174.4	3.2	85.5	79.1	175.1	3.2	87.5
50	52.2	31	84.7	174.7	3.4	60.1	80.9	164.4	3.4	59.4	77.9	179.3	3.4	58.2	76.3	178.0	3.4	59.7
60	59.7	45	84.7	217.6	2.8	57.4	81.1	190.5	2.9	56.1	75.9	196.8	2.9	54.7	74.4	191.3	2.8	57.2
70	67.3	34	83.8	241.6	3.2	60.3	80.3	204.3	3.2	61.0	74.2	204.8	3.2	61.2	72.9	197.9	3.2	61.7
80	77.9	14	84.7	275.8	6.0	45.1	81.4	206.1	5.9	47.2	74.7	207.4	5.9	47.0	73.1	202.2	6.0	45.7
90	90.0	13	85.0	320.8	5.3	61.7	82.2	202.1	5.2	65.2	75.5	207.4	5.1	65.9	72.9	203.8	5.1	67.2
100	97.6	12	85.5	9.7	6.8	42.0	81.7	180.1	6.7	43.0	76.6	195.8	6.7	43.1	73.0	194.4	6.7	43.0
110	113.6	17	77.7	20.2	4.1	76.7	80.0	183.6	4.2	74.8	75.1	193.8	4.2	75.3	71.3	194.5	4.2	75.0
120	119.1	20	76.4	17.3	2.3	209.6	78.2	189.4	2.4	182.9	73.1	193.9	2.4	184.3	69.3	196.0	2.4	183.7
130	126.4	14	75.3	14.0	3.2	154.5	75.8	192.9	2.8	205.5	70.6	193.0	2.8	205.6	66.8	196.5	2.8	205.8
140	136.8	7	72.4	5.8	6.5	87.4	73.8	197.6	6.0	103.2	68.3	194.2	6.0	103.4	64.6	198.4	6.0	103.4
150	151.6	10	67.0	26.6	6.8	50.8	75.0	159.9	6.6	54.3	73.6	167.7	6.6	54.5	68.7	175.2	6.6	54.4
160	162.3	15	62.9	31.6	5.0	58.5	72.5	144.0	5.0	59.7	73.7	149.7	5.0	59.7	68.4	161.3	5.0	59.7
170	173.4	21	56.9	39.3	6.0	28.8	69.7	112.5	6.7	23.6	75.5	110.1	6.7	23.6	70.9	131.8	6.7	23.6
180	178.8	18	53.2	45.7	5.4	41.3	65.5	95.9	5.6	39.7	73.0	83.4	5.6	39.7	69.9	109.2	5.6	39.7
190	189.7	23	54.5	45.0	4.2	52.9	65.3	98.4	4.2	52.9	72.6	86.8	4.2	52.9	69.3	111.8	4.2	52.9
200	196.7	19	58.2	46.9	4.3	61.6	63.2	106.0	4.3	61.6	69.8	95.6	4.3	61.6	66.1	117.7	4.3	61.6

^aWindow, age of the center of window; age, mean age computed from the data; N , number of studies; λ , ϕ , latitude and longitude of mean VGP; A_{95} uncertainty at the 95% confidence level; K , Fisher's precision parameter.